

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

DATE MAILED: 10/27/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,933	08/28/2003	Edward D. Tate JR.	GP-301753	8067
75	90 10/27/2004	,	EXAM	INER
CHRISTOPHER DEVRIES			TIBBITS, PIA FLORENCE	
	Corporation, Legal Staff			DAREN MUMBER
Legal Staff, Mail Code 482-C23-B21			ART UNIT	PAPER NUMBER
P.O. Box 300			2838	
Detroit, MI 48	3265-3000			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/650,933	TATE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Pia F Tibbits	2838				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	_•					
2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This	☐ This action is <b>FINAL</b> . 2b)☐ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-19 are subject to restriction and/or expressions.						
Application Papers		•				
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

Application/Control Number: 10/650,933 Page 2

Art Unit: 2838

## **DETAILED ACTION**

## Election/Restriction

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-6, drawn to a battery system estimating a state-of-charge of a battery

by measuring the terminal voltage, classified in class 320, subclass 132.

II. Claims 7-19 drawn to a method of estimating a state-of-charge of a battery using

modeling and data processing, classified in class 702, subclass 64.

2. The inventions listed in groups I and II are distinct, each from the other because of the following

reasons:

Inventions II and İ are related as apparatus and method (process) for its practice. The

inventions are distinct if it can be shown that either:

a)the apparatus as claimed can be used to practice another and materially different process, or

b) the method as claimed can be practiced by another materially different apparatus or by hand

(M.P.E.P. 806.05(e)).

In this case, the method of estimating a state-of-charge of a battery using modeling and data

processing, as stated in group II, can be practiced by an apparatus, such as one, which does not require

a meter.

3. Because these inventions are distinct for the reasons given above and have acquired a separate

status in the art as shown by their recognized divergent subject matter and their different classification

restriction for examination purposes as indicated is proper.

4. Applicant is advised that the reply to this requirement to be complete must include an election of

the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Application/Control Number: 10/650,933 Page 3

Art Unit: 2838

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the

inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named

inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of

inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37

CFR 1.17(I).

6. Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Examiner Pia Tibbits whose telephone number is (571) 272-2086. The Technology Center

Fax number is (703) 872-9306.

7. Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at

866-217-9197 (toll-free).

PFT

October 22, 2004

Pia Tibbits

Primary Patent(Examiner